

# React Ecosystem

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React Workshop - P4

## Agenda: -

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- React Router
- Axios



# React Router

- Library to add client side routing
- Key components
  - Browser Router
  - Link
  - Switch
  - Router
- Programmatic route change
  - 'useHistory' hook

```
return (
  <ContactProvider>
    <Router>
      <div>
        <nav>
          <ul>
            <li>
              <Link to="/">Contact List</Link>
            </li>
            <li>
              <Link to="/add">Add Contact</Link>
            </li>
          </ul>
        </nav>

        <Switch>
          <Route path="/add">
            <ContactForm></ContactForm>
          </Route>
          <Route path="/">
            <ContactList></ContactList>
          </Route>
        </Switch>
      </div>
    </Router>
  </ContactProvider>
);
```

# Axios

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- Promise based HTTP client for the browser and node.js
- Make XMLHttpRequests from the browser
- [Intercept request and response](#)
- Key APIs
  - axios(url[, [config](#)])
  - axios.request(config)
  - axios.get(url[, config])
  - axios.post(url[, data[, config]])
  - axios.put(url[, data[, config]])



# 'useEffect' hook

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- How to load the initial data ?
- By using this Hook, you tell React that your component needs to do something after render
- Similar to componentDidMount
- Applications
  - Data fetching
  - Setting up a subscription
  - Manually changing the DOM in React components

# Things we missed out...

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- Redux – React Redux
- Styling - Material UI, Tailwind CSS
- Unit Testing – Jest & Enzyme/React Testing Library



# Final Project

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- Complete Contact Management Application
  - Add Phone number as well to the contact entity
  - Create Contact Listing Page with Edit, Delete action buttons
  - Update Add Contact Page
  - Create Edit Contact Page
- Application should be integrated with the API Server provided or with your own implementation